


Division – Chipping away at the whole number

Language (Script)	Visual/image	Recording																																																																	
<p>237 divided by 5</p> <p>How could you share 237 balloons between 5 people?</p> <p>Make a good 'guess'. Make sure your 'guess' ends in a zero. It could be 10 each, 20 each, 30 each, 40 each, 50 each, etc.</p> <ul style="list-style-type: none"> Student could suggest 20. <p>So if each person gets 20 balloons each, how many have we shared? $5 \times 20 = 100$</p> <p>Subtract 100 from 237. How many balloons are we left with? $237 - 100 = 137$. There are 137 balloons left.</p>	 <p><i>An image is used to represent the number of items to be shared.</i></p> <p><i>Rub out parts of the image as the number of items are progressively shared.</i></p>	<table border="1" style="width: 100%; text-align: center;"> <tr><td></td><td>H</td><td>T</td><td>O</td><td></td></tr> <tr><td>5</td><td>2</td><td>3</td><td>7</td><td>人</td></tr> <tr><td>-</td><td>1</td><td>0</td><td>0</td><td>2</td></tr> <tr><td></td><td>1</td><td>3</td><td>7</td><td>0</td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> </table>		H	T	O		5	2	3	7	人	-	1	0	0	2		1	3	7	0																																													
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<p>How could you share 137 balloons between 5 people?</p> <p>Remember, make a good 'guess' and that sure your 'guess' ends in a zero. It could be 10 each, 20 each, 30 each, 40 each, 50 each, etc.</p> <ul style="list-style-type: none"> Student could suggest 20 again. <p>So if each person gets 20 Balloons each, how many have we shared? $5 \times 20 = 100$</p> <p>Subtract 100 from 137. How many balloons are we left with? $137 - 100 = 37$. There are 37 balloons left.</p>		<table border="1" style="width: 100%; text-align: center;"> <tr><td></td><td>H</td><td>T</td><td>O</td><td></td></tr> <tr><td>5</td><td>2</td><td>3</td><td>7</td><td>人</td></tr> <tr><td>-</td><td>1</td><td>0</td><td>0</td><td>2</td></tr> <tr><td></td><td>1</td><td>3</td><td>7</td><td>0</td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> </table>		H	T	O		5	2	3	7	人	-	1	0	0	2		1	3	7	0																																													
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<p>How could you share 37 balloons between 5 people?</p> <p>Make a good 'guess'.</p> <ul style="list-style-type: none"> Student could suggest 7. <p>So if each person gets 7 balloons each, how many have we shared? $5 \times 7 = 35$</p> <p>Subtract 35 from 37. How many balloons are we left with? $37 - 35 = 2$. There are 2 balloons left.</p> <p>There is nothing left to share.</p>		<table border="1" style="width: 100%; text-align: center;"> <tr><td></td><td>H</td><td>T</td><td>O</td><td></td></tr> <tr><td>5</td><td>2</td><td>3</td><td>7</td><td>人</td></tr> <tr><td>-</td><td>1</td><td>0</td><td>0</td><td>2</td></tr> <tr><td></td><td>1</td><td>3</td><td>7</td><td>0</td></tr> <tr><td>-</td><td>1</td><td>0</td><td>0</td><td>2</td></tr> <tr><td></td><td></td><td>3</td><td>7</td><td></td></tr> <tr><td></td><td></td><td>-</td><td>3</td><td>5</td></tr> <tr><td></td><td></td><td></td><td></td><td>7</td></tr> <tr><td></td><td></td><td></td><td></td><td>2</td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> </table>		H	T	O		5	2	3	7	人	-	1	0	0	2		1	3	7	0	-	1	0	0	2			3	7				-	3	5					7					2																				
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<p>Add the number of balloons shared to each person. $20 + 20 + 7 = 47$.</p> <p>Record your answer. Each person got 47 balloons and there were 2 left over.*</p>		<table border="1" style="width: 100%; text-align: center;"> <tr><td></td><td>H</td><td>T</td><td>O</td><td></td></tr> <tr><td></td><td></td><td>4</td><td>7</td><td>r2</td></tr> <tr><td>5</td><td>2</td><td>3</td><td>7</td><td>人</td></tr> <tr><td>-</td><td>1</td><td>0</td><td>0</td><td>2</td></tr> <tr><td></td><td>1</td><td>3</td><td>7</td><td>0</td></tr> <tr><td>-</td><td>1</td><td>0</td><td>0</td><td>2</td></tr> <tr><td></td><td></td><td>3</td><td>7</td><td></td></tr> <tr><td></td><td></td><td>-</td><td>3</td><td>5</td></tr> <tr><td></td><td></td><td></td><td></td><td>+</td></tr> <tr><td></td><td></td><td></td><td></td><td>7</td></tr> <tr><td></td><td></td><td></td><td></td><td>2</td></tr> <tr><td></td><td></td><td></td><td></td><td>4</td></tr> <tr><td></td><td></td><td></td><td></td><td>7</td></tr> </table>		H	T	O				4	7	r2	5	2	3	7	人	-	1	0	0	2		1	3	7	0	-	1	0	0	2			3	7				-	3	5					+					7					2					4					7
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<p>237 divided by 5 is 47 remainder 2</p>																																																																			

* Answers involving fractions require a different context – physical objects that can be shared (e.g., Mars Bars).